

**FIGURE 1**

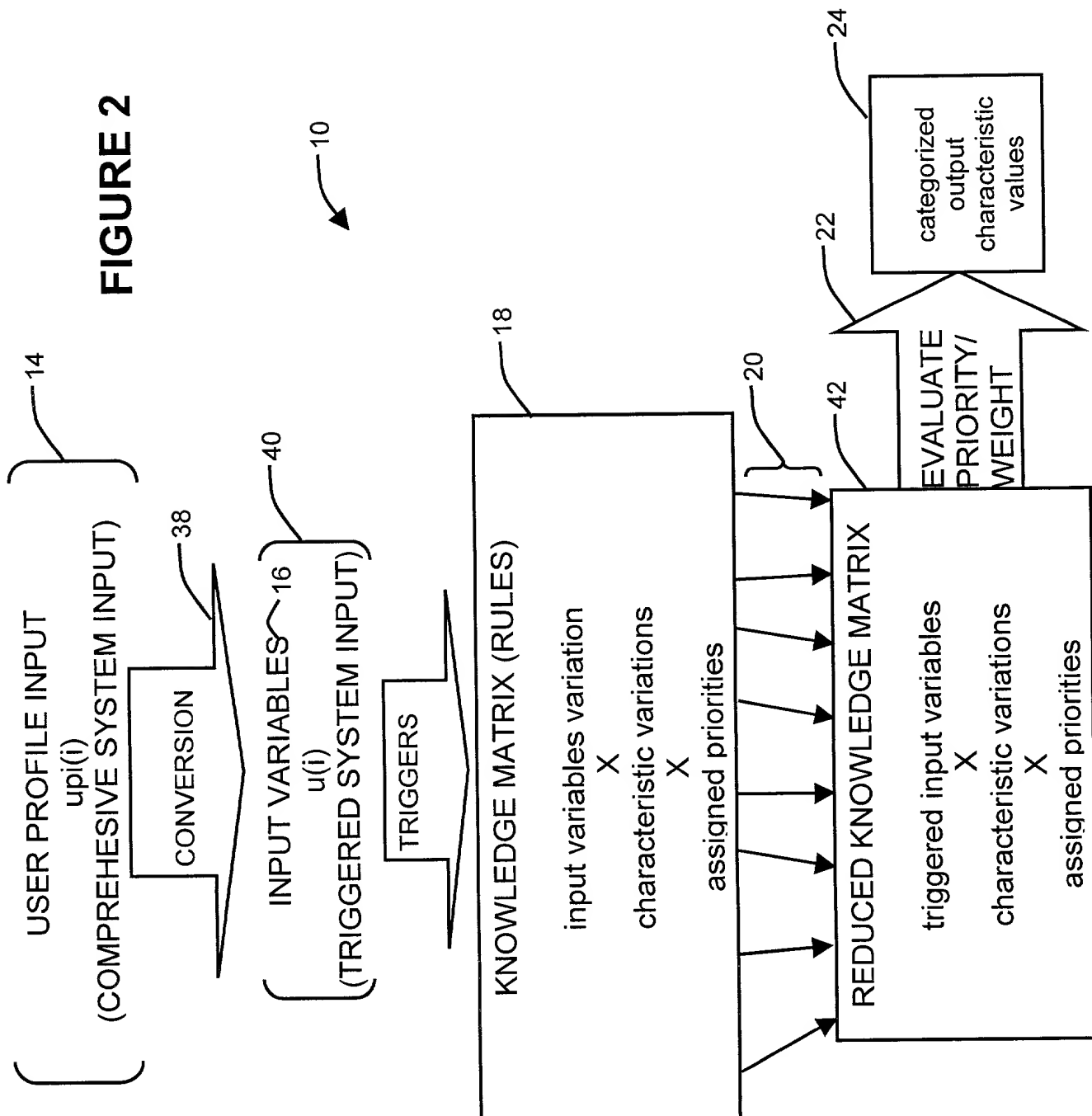


FIGURE 2

USPTO CASE FILES OFFICE ACTION OFFICE ACTION OFFICE ACTION  
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25

| USER PROFILE INPUT | DATA |
|--------------------|------|
| upi(1)             | #### |
| upi (2)            | #### |
| upi (3)            | #### |
| upi (4)            | #### |
| upi (5)            | #### |
| upi (6)            | #### |
| upi (7)            | #### |
| upi (8)            | #### |
| upi (9)            | #### |
| upi (10)           | #### |
| upi (11)           | #### |
| upi (12)           | #### |
| upi (13)           | #### |
| upi (14)           | #### |
| upi (15)           | #### |
| upi (16)           | #### |
| upi (17)           | #### |
| upi (18)           | #### |

FIGURE 3A

| USER PROFILE INPUT     | DATA     |
|------------------------|----------|
| specific event:        | formal   |
| date (month-day-year): | 01-01-01 |
| time (time of day):    | evening  |
| height:                | 5 ft 7in |
| weight:                | 120      |
| bust measurement:      | 34"      |
| bust cup:              | B        |
| hip measurement:       | 36"      |
| waist measurement:     | 24"      |
| body fitness level:    | very fit |
| best body feature 1:   | bust     |
| best body feature 2:   | waist    |
| worst body feature:    | hips     |
| personal style:        | trendy   |
| user age:              | 25       |
| skin color:            | cocoa    |
| hair color:            | black    |
| eye color:             | brown    |

FIGURE 3B

| SPECIFIC<br>EVENT | evnt                  |
|-------------------|-----------------------|
| e1                | formal                |
| e2                | black &<br>white ball |
| e3                | semiformal            |
| e4                | dressy                |
| e5                | wedding               |
| e6                | funeral               |
| e7                | party/club            |
| e8                | date                  |
| e9                | business<br>formal    |
| ea                | business<br>casual    |
| eb                | casual                |
| ec                | active                |

**FIGURE 4A**

| HEIGHT /<br>WEIGHT | htwt          |
|--------------------|---------------|
| h1                 | short & thin  |
| h2                 | short & med   |
| h3                 | short & large |
| h4                 | avg & thin    |
| h5                 | avg & med     |
| h6                 | avg & large   |
| h7                 | tall & thin   |
| h8                 | tall & med    |
| h9                 | tall & large  |

**FIGURE 4B**

| ENDOW-<br>MENT | endw         |
|----------------|--------------|
| d1             | small        |
| d2             | average      |
| d3             | well endowed |
| d4             | over endowed |

**FIGURE 4C**

| SEASON | sesn   |
|--------|--------|
| s1     | winter |
| s2     | spring |
| s3     | summer |
| s4     | fall   |

**FIGURE 4D**

| TIME OF<br>DAY | time      |
|----------------|-----------|
| m1             | morning   |
| m2             | afternoon |
| m3             | evening   |

**FIGURE 4E**

| BODY<br>TYPE | btyp                  |
|--------------|-----------------------|
| t1           | top heavy             |
| t2           | bottom heavy          |
| t3           | lacking<br>definition |
| t4           | well<br>proportioned  |
| t5           | hour glass            |

**FIGURE 4F**

| BODY FITNESS LEVEL | bfit          |
|--------------------|---------------|
| f1                 | Below average |
| f2                 | average       |
| f3                 | above average |

**FIGURE 4G**

| BEST BODY FEATURE 1 | bst1      |
|---------------------|-----------|
| b1                  | arms      |
| b2                  | back      |
| b3                  | breasts   |
| b4                  | waistline |
| b5                  | hips      |
| b6                  | thighs    |
| b7                  | calves    |

**FIGURE 4H**

| BEST BODY FEATURE 2 | bst2      |
|---------------------|-----------|
| b8                  | arms      |
| b9                  | back      |
| ba                  | breasts   |
| bb                  | waistline |
| bc                  | hips      |
| bd                  | thighs    |
| be                  | calves    |

**FIGURE 4I**

| PERSONAL STYLE | styl         |
|----------------|--------------|
| p1             | sporty       |
| p2             | Savvy        |
| p3             | trendy       |
| p4             | conservative |
| p5             | casual       |
| p6             | revealing    |
| p7             | grunge       |
| P8             | flashy       |
| P9             | ethnic       |
| pa             | retro        |
| pb             | urban        |

**FIGURE 4J**

| AGE | age#            |
|-----|-----------------|
| a1  | [< 14 yrs old]  |
| a2  | [15-18 yrs old] |
| a3  | [19-24 yrs old] |
| a4  | [25-30 yrs old] |
| a5  | [31-40 yrs old] |
| a6  | [41-50 yrs old] |
| a7  | [51-60 yrs old] |
| a8  | [60+ yrs old]   |

**FIGURE 4K**

| WORST BODY FEATURE | wrst        |
|--------------------|-------------|
| w1                 | arms        |
| w2                 | back        |
| w3                 | breasts     |
| w4                 | Waistline   |
| w5                 | hips        |
| w6                 | Thighs      |
| w7                 | Calves      |
| w8                 | short torso |
| w9                 | long torso  |

**FIGURE 4L**

| PROFILE INPUT                      | CALCULATION   | INPUT VARIABLE |
|------------------------------------|---|----------------|
| specific event: formal             | (formal = e1)   | u[1] = e1      |
| date (month-day-year):<br>01-01-01 | (date => season calculation),<br>(01-01-01 => winter =s1)                                   | u[2] = s1      |
| time (time of day):<br>evening     | (evening = m3)  | u[3] = m3      |
| height: 5 ft 7in                   |   | u[4] = h7      |
| weight: 120                        | (height & weight calculation)<br>(height= 5'7", weight =120 lbs =><br>average& thin = h7)   | u[5] = t4      |
| bust measurement: 34"              |   | u[6] = d2      |
| hip measurement: 36"               |   | u[7] = f1      |
| waist measurement: 24"             | (bust & waist & hips => body type<br>calculation) ( 34"24"36" => well<br>proportioned = t4) | u[8] = b1      |
| bust cup: B                        | (bust to cup ratio calculation =>d2)  | u[9] = b3      |
| body fitness level:very fit        | (fitness level = very fit = f1)   | u[10]= w6      |
| best body feature 1: bust          | (best feature 1 = bust = b1)  | u[11]= p3      |
| best body feature 2: waist         | (best feature 2 = waist = b8)   | u[12]= a3      |
| worst body feature: hips           | (worst feature = hips = w6)   | u[13]= 555     |
| personal style: trendy             | (personal style= trendy = p3)   |                |
| user age: 25                       | (age range = 25 = a3)   |                |
| skin color: cocoa                  |   |                |
| hair color: black                  |   |                |
| eye color: brown                   | (skin & hair & eye = cocoa, black,<br>brown = 555 )   |                |

14

38

**FIGURE 5**

16

|           | u[1] | u[2] | u[3] | u[4] | u[5] | u[6] | u[7] | u[8] | u[9] | u[10] | u[11] | u[12] | u[13] |
|-----------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
| u[1:13] = | e1   | s1   | m3   | H7   | t4   | d2   | f1   | b1   | b8   | w6    | p3    | a3    | 555   |

40

**FIGURE 6**

FIG. 7

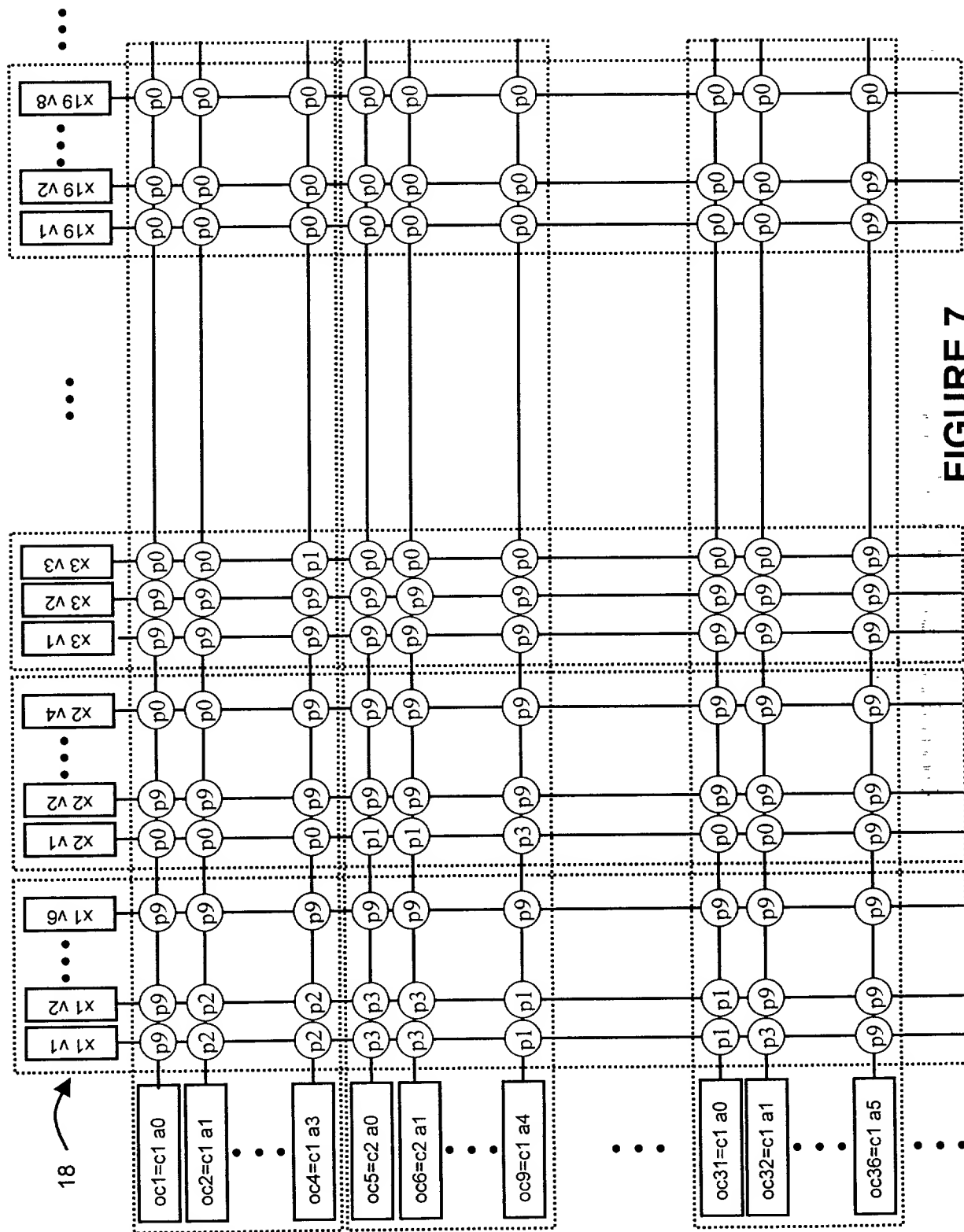


FIGURE 7

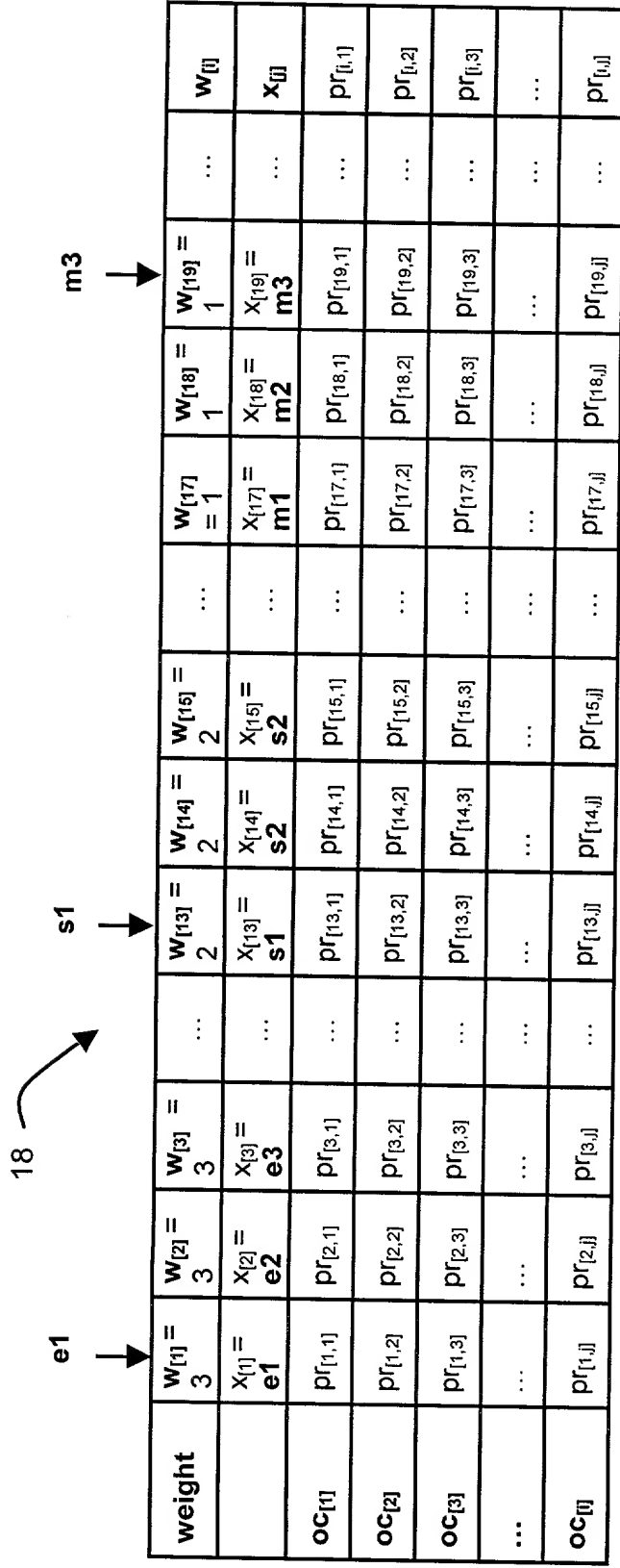


FIGURE 8



FIG. 9 is a schematic diagram of a garment attribute table.

| 42         | $W_{[1]} = 3$  | $W_{[13]} = 2$  | $W_{[19]} = 1$  | $W_{[26]} = 5$  | $W_{[29]} = 5$  | $W_{[32]} = 1$  | $W_{[37]} = 4$  | $W_{[40]} = 1$  | $W_{[48]} = 2$  | $W_{[53]} = 8$  | $W_{[56]} = 4$  | $W_{[71]} = 3$  | $W_{[241]} = 3$   |
|------------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
|            | $X_{[1]} = e1$ | $X_{[13]} = s1$ | $X_{[19]} = m3$ | $X_{[26]} = h7$ | $X_{[29]} = h7$ | $X_{[32]} = t4$ | $X_{[37]} = f1$ | $X_{[40]} = b1$ | $X_{[48]} = b8$ | $X_{[53]} = w6$ | $X_{[56]} = p3$ | $X_{[71]} = a3$ | $X_{[241]} = 555$ |
| $oc_{[1]}$ | $pr_{[1,1]}$   | $pr_{[13,1]}$   | $pr_{[19,1]}$   | $pr_{[26,1]}$   | $pr_{[29,1]}$   | $pr_{[32,1]}$   | $pr_{[37,1]}$   | $pr_{[40,1]}$   | $pr_{[48,1]}$   | $pr_{[53,1]}$   | $pr_{[56,1]}$   | $pr_{[71,1]}$   | $pr_{[241,1]}$    |
| $oc_{[2]}$ | $pr_{[1,2]}$   | $pr_{[13,2]}$   | $pr_{[19,2]}$   | $pr_{[26,2]}$   | $pr_{[29,2]}$   | $pr_{[32,2]}$   | $pr_{[37,2]}$   | $pr_{[40,2]}$   | $pr_{[48,2]}$   | $pr_{[53,2]}$   | $pr_{[56,2]}$   | $pr_{[71,2]}$   | $pr_{[241,2]}$    |
| $oc_{[3]}$ | $pr_{[1,3]}$   | $pr_{[13,3]}$   | $pr_{[19,3]}$   | $pr_{[26,3]}$   | $pr_{[29,3]}$   | $pr_{[32,3]}$   | $pr_{[37,3]}$   | $pr_{[40,3]}$   | $pr_{[48,3]}$   | $pr_{[53,3]}$   | $pr_{[56,3]}$   | $pr_{[71,3]}$   | $pr_{[241,3]}$    |
| ...        | ...            | ...             | ...             | ...             | ...             | ...             | ...             | ...             | ...             | ...             | ...             | ...             | ...               |
| $oc_{[j]}$ | $pr_{[1,j]}$   | $pr_{[13,j]}$   | $pr_{[19,j]}$   | $pr_{[26,j]}$   | $pr_{[29,j]}$   | $pr_{[32,j]}$   | $pr_{[37,j]}$   | $pr_{[40,j]}$   | $pr_{[48,j]}$   | $pr_{[53,j]}$   | $pr_{[56,j]}$   | $pr_{[71,j]}$   | $pr_{[241,j]}$    |

FIGURE 9

| GARMENT ATTRIB. VAR.<br>gocc (garment occasion) |            |
|---|------------|
| occ1  | formal     |
| occ2  | semiformal |
| occ3  | dressy     |
| occ4  | casual     |
| occ5  | party      |
| occ6  | business   |

FIGURE 10A

| GARMENT ATTRIB. VAR.<br>gfft (garment fit top): |        |
|---|--------|
| ft1   | loose  |
| ft2   | normal |
| ft3   | fitted |
| ft4   | tight  |

FIGURE 10B

| GARMENT ATTRIB. VAR.<br>gnck (garment neck): |                   |
|--|-------------------|
| nck1   | neck concealing   |
| nck2   | neck lined        |
| nck3   | v-neck/scoop neck |
| nck4   | low cut           |
| nck5   | neck-less         |

FIGURE 10C

| GARMENT ATTRIB. VAR.<br>gclr (garment color) |         |
|--|---------|
| clr1   | pointed |
| clr2   | rounded |
| clr3   | band    |
| clr4   | none    |

**FIGURE 10D**

| GARMENT ATTRIB. VAR.<br>gslv (garment sleeve): |                 |
|--|-----------------|
| slv1   | sleeveless      |
| slv2   | thin strap      |
| slv3   | shoulder sleeve |
| slv4   | short sleeve    |
| slv5   | 3/4 sleeve      |
| slv6   | long sleeve     |

**FIGURE 10G**

| GARMENT ATTRIB. VAR.<br>gbck (garment back): |            |
|--|------------|
| bck1   | revealing  |
| bck2   | concealing |

**FIGURE 10H**

| GARMENT ATTRIB. VAR.<br>glnt (garment length): |       |
|--|-------|
| lnt1   | crop  |
| lnt2   | waist |
| lnt3   | hip   |
| lnt4   | thigh |
| lnt5   | knee  |
| lnt6   | calve |
| lnt7   | ankle |
| lnt8   | heel  |
| lnt9   | floor |

**FIGURE 10E**

| GARMENT ATTRIB. VAR.<br>gmat (garment material): |             |
|--|-------------|
| mat1   | animal hide |
| mat2   | denim       |
| mat3   | cashmere    |
| mat4   | cotton      |
| mat5   | wool        |
| mat6   | acetate     |
| mat7   | polyester   |
| mat8   | spandex     |
| mat9   | beaded      |
| mata   | rayon       |
| matb   | silk        |
| matc   | lace        |
| matd   | linen       |
| mate   | lycra       |
| matf   | satin       |
| matg   | other       |

**FIGURE 10J**

| GARMENT ATTRIB. VAR.<br>gcol (garment color): |        |
|---|--------|
| col1  | black  |
| col2  | blue   |
| col3  | brown  |
| col4  | gold   |
| col5  | green  |
| col6  | grey   |
| col7  | indigo |
| col8  | orange |
| col9  | pink   |
| cola  | red    |
| colb  | silver |
| colc  | tan    |
| cold  | white  |
| cole  | violet |
| colf  | yellow |

**FIGURE 10F**

| GARMENT ATTRIB. VAR.<br>gtne (garment color tone): |       |
|--|-------|
| tne1   | light |
| tne2   | bold  |
| tne3   | rich  |
| tne4   | dark  |

**FIGURE 10I**

| GARMENT ATTRIB. VAR.<br>gpat (garment pattern ): |              |
|--|--------------|
| pat1   | solid        |
| pat2   | plad/checker |
| pat3   | v-stripe     |
| pat4   | h-stripe     |
| pat5   | animal print |
| pat6   | paisley      |
| pat7   | polka dots   |
| pat8   | floral       |
| pat9   | other        |

FIGURE 10K

| GARMENT ATTRIB. VAR.<br>gplt (garment pleat): |              |
|---|--------------|
| plt1  | flat front   |
| plt2  | single pleat |
| plt3  | double pleat |

FIGURE 10N

| GARMENT ATTRIB. VAR.<br>gleg (garment leg): |          |
|---|----------|
| leg1  | bell     |
| leg2  | straight |
| leg3  | tapered  |
| leg4  | wide     |
| leg5  | boot cut |

FIGURE 10L

| GARMENT ATTRIB. VAR.<br>gffb (garment fit bottom): |        |
|--|--------|
| ffb1   | loose  |
| ffb2   | normal |
| ffb3   | fitted |
| ffb4   | tight  |

FIGURE 10O

| GARMENT ATTRIB. VAR.<br>gslt (garment slit [skirt/dress]): |                     |
|--|---------------------|
| slt1   | none                |
| slt2   | none revealing slit |
| slt3   | revealing slit      |

FIGURE 10M

| GARMENT ATTRIB. VAR.<br>gbrs (garment breast): |                 |
|--|-----------------|
| brs1   | single breasted |
| brs2   | double breasted |

FIGURE 10P

| GARMENT ATTRIB. VAR.<br>gsty (garment style): |              |
|---|--------------|
| sty1  | casual       |
| sty2  | revealing    |
| sty3  | grunge       |
| sty4  | ethnic       |
| sty5  | retro        |
| sty6  | urban        |
| sty7  | savvy        |
| sty8  | sporty       |
| sty9  | trendy       |
| stya  | conservative |
| styb  | flashy       |

FIGURE 10Q

11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

| weights:<br>triggered<br>rows: |  | 3  | 2  | 1  | 5  | 5  | 1  | 4  | 1  | 2  | 3  | 4  | 3  | 3   | output<br>characteristic value |
|--------------------------------|--|----|----|----|----|----|----|----|----|----|----|----|----|-----|--------------------------------|
|                                |  | e1 | s1 | m3 | h7 | t4 | d2 | f1 | b1 | b8 | w6 | p3 | a3 | 555 |                                |
| ftt1                           |  | 9  | 0  | 0  | 0  | 3  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | =Ø ( 9.0 dictates the          |
| ftt2                           |  | 2  | 0  | 0  | 0  | 2  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | characteristic to be excluded) |
| ftt3                           |  | 1  | 0  | 1  | 0  | 1  | 1  | 0  | 0  | 0  | 9  | 0  | 0  | 0   | = (3*2+ 5*2+5*2)/3= 8.66       |
| ftt4                           |  | 2  | 0  | 1  | 0  | 9  | 1  | 9  | 0  | 0  | 9  | 0  | 0  | 0   | =Ø                             |
| nck1                           |  | 3  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | = (3*3+ 2*1)/2= 5.5            |
| nck2                           |  | 3  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | = (3*3+ 2*1)/2= 5.5            |
| nck3                           |  | 2  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | = (3*3+ 2*2)/2= 6.5            |
| nck4                           |  | 1  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | = (3*1+ 2*2)/2= 3.5            |
| nck5                           |  | 1  | 3  | 0  | 0  | 0  | 0  | 9  | 0  | 0  | 0  | 0  | 0  | 0   | =Ø                             |
| clr1                           |  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | =0                             |
| clr2                           |  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | =0                             |
| clr3                           |  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | =0                             |
| clr4                           |  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | =0                             |
| slv1                           |  | 1  | 3  | 0  | 0  | 0  | 0  | 9  | 1  | 1  | 0  | 0  | 0  | 0   | =Ø                             |
| slv2                           |  | 1  | 3  | 0  | 0  | 0  | 0  | 9  | 1  | 1  | 0  | 0  | 0  | 0   | =Ø                             |
| slv3                           |  | 0  | 2  | 0  | 0  | 0  | 0  | 9  | 1  | 1  | 0  | 0  | 0  | 0   | =Ø                             |
| slv4                           |  | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 2  | 2  | 0  | 0  | 0  | 0   | = (2*1+1*2+2*2)/3= 2.67        |
| slv5                           |  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 2  | 2  | 0  | 0  | 0  | 0   | = (1*1+1*2+2*2)/3= 2.67        |
| slv6                           |  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 3  | 3  | 0  | 0  | 0  | 0   | = (2*1+3*1+3*2)/3= 3           |
| Int1                           |  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9   | =Ø                             |
| Int2                           |  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9   | =Ø                             |
| Int3                           |  | 9  | 9  | 0  | 0  | 0  | 0  | 9  | 0  | 0  | 0  | 0  | 9  | 9   | =Ø                             |
| Int4                           |  | 9  | 2  | 0  | 0  | 0  | 0  | 9  | 0  | 0  | 0  | 0  | 9  | 9   | =Ø                             |
| Int5                           |  | 9  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | =Ø                             |
| Int6                           |  | 9  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | =Ø                             |
| Int7                           |  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | = (3*1+2*1)/2=2.5              |
| Int8                           |  | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | = (3*1+2*1)/2=2.5              |
| Int9                           |  | 1  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | = (3*1+2*2)/2=3.5              |

FIGURE 11 A

OUTPUT  
 CHARACTERISTIC  
 VALUES 24

|                |      |      |
|----------------|------|------|
| garment fit    | ftt1 | Ø    |
|                | ftt2 | 8.66 |
|                | ftt3 | Ø    |
|                | ftt4 | Ø    |
| garment neck   | nck1 | 5.5  |
|                | nck2 | 5.5  |
|                | nck3 | 6.5  |
|                | nck4 | 3.5  |
|                | nck5 | Ø    |
| garment collar | clr1 | 0    |
|                | clr2 | 0    |
|                | clr3 | 0    |
|                | clr4 | 0    |
| garment sleeve | slv1 | Ø    |
|                | slv2 | Ø    |
|                | slv3 | Ø    |
|                | slv4 | 2.67 |
|                | slv5 | 2.67 |
|                | slv6 | 3    |
| garment length | Int1 | Ø    |
|                | Int2 | Ø    |
|                | Int3 | Ø    |
|                | Int4 | Ø    |
|                | Int5 | Ø    |
|                | Int6 | Ø    |
|                | Int7 | 2.5  |
|                | Int8 | 2.5  |
|                | Int9 | 3.5  |

## FIGURE 11B

|                       |      |      |
|-----------------------|------|------|
| garment back          | bck1 | Ø    |
|                       | bck2 | 4    |
| garment color         | col1 | 2    |
|                       | col2 | 2.66 |
|                       | col3 | 5.33 |
|                       | col4 | 2.66 |
|                       | col5 | 2.33 |
|                       | col6 | 2    |
|                       | col7 | 5.33 |
|                       | col8 | 5.66 |
|                       | col9 | 3    |
|                       | cola | 2.33 |
|                       | colb | 2.66 |
|                       | colc | 4.33 |
|                       | cold | 5.33 |
|                       | cole | 4.66 |
|                       | colf | 5.66 |
| garment color<br>tone | tne1 | 6.33 |
|                       | tne2 | 7    |
|                       | tne3 | 5    |
|                       | tne4 | 2    |

FIG. 11C

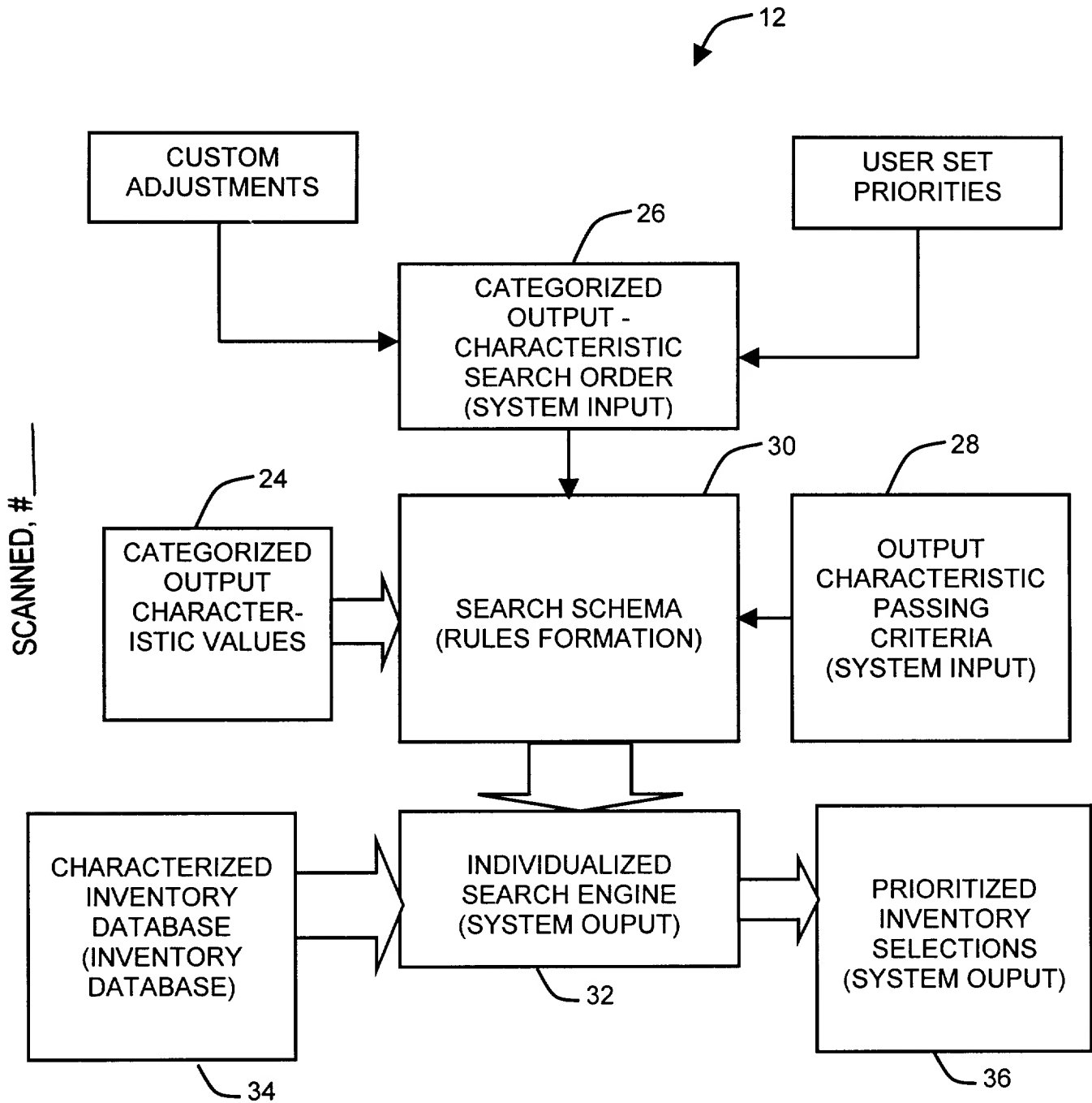
| weights:<br>triggered<br>rows: | 3  |    | 2  |    | 1  |    | 5  |    | 5  |    | 1  |    | 4   |  | 1 |  | 2 |  | 3 |  | 3 |                   | output<br>characteristic value | OUTPUT<br>CHARACTERISTIC<br>VALUES 24 |     |
|--------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|-----|--|---|--|---|--|---|--|---|-------------------|--------------------------------|---------------------------------------|-----|
|                                | e1 | s1 | m3 | h7 | t4 | d2 | f1 | b1 | b8 | w6 | p3 | a3 | 555 |  |   |  |   |  |   |  |   |                   |                                |                                       |     |
| mat0                           | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (2*1)/1=2       | garment material               | mat0                                  | 2   |
| mat1                           | 9  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | =∅                |                                | mat1                                  | ∅   |
| mat2                           | 9  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | =∅                |                                | mat2                                  | ∅   |
| mat3                           | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (2*1)/1=2       |                                | mat3                                  | 2   |
| mat4                           | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (2*1)/1=2       |                                | mat4                                  | 2   |
| mat5                           | 1  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (3*1+2*1)/2=2.5 |                                | mat5                                  | 2.5 |
| mat6                           | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (2*1)/1=2       |                                | mat6                                  | 2   |
| mat7                           | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (2*1)/1=2       |                                | mat7                                  | 2   |
| mat8                           | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (3*1+2*1)/2=2.5 |                                | mat8                                  | 2.5 |
| mat9                           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = 0               |                                | mat9                                  | 0   |
| mata                           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = 0               |                                | mata                                  | 0   |
| matb                           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = 0               |                                | matb                                  | 0   |
| matc                           | 0  | 9  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | =∅                |                                | matc                                  | ∅   |
| mad                            | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (3*1)/1= 3      |                                | mad                                   | 3   |
| mate                           | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (3*1+2*1)/2=2.5 |                                | mate                                  | 2.5 |
| matf                           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = 0               |                                | matf                                  | 0   |
| pat1                           | 1  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (3*1+2*1)/2=2.5 | garment pattern                | pat1                                  | 2.5 |
| pat2                           | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (2*1)/1= 2      |                                | pat2                                  | 2   |
| pat3                           | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (2*1)/1= 2      |                                | pat3                                  | 2   |
| pat4                           | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (2*1)/1= 2      |                                | pat4                                  | 2   |
| pat5                           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = 0               |                                | pat5                                  | 0   |
| pat6                           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = 0               |                                | pat6                                  | 0   |
| pat7                           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = 0               |                                | pat7                                  | 0   |
| pat8                           | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = 0               |                                | pat8                                  | 0   |
| pat9                           | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   |  |   |  |   |  |   |  |   | = (1*3)/1= 3      |                                | pat9                                  | 3   |

FIGURE 11C

OUTPUT  
CHARACTERISTIC  
VALUES 24

| weights:<br>triggered<br>rows: | 3  | 2  | 1  | 5  | 5  | 1  | 4  | 1  | 2  | 3  | 4  | 3  | 3   | output<br>characteristic value | OUTPUT<br>CHARACTERISTIC<br>VALUES 24 |         |
|--------------------------------|----|----|----|----|----|----|----|----|----|----|----|----|-----|--------------------------------|---------------------------------------|---------|
|                                | e1 | s1 | m3 | h7 | t4 | d2 | f1 | b1 | b8 | w6 | p3 | a3 | 555 |                                |                                       |         |
| leg1                           | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | = (2*1)/1= 2                   | garment leg                           |         |
| leg2                           | 0  | 9  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | =Ø                             |                                       | leg1 2  |
| leg3                           | 0  | 9  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 9  | 9   | =Ø                             |                                       | leg2 Ø  |
| leg4                           | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9   | =Ø                             |                                       | leg3 Ø  |
| leg5                           | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9   | =Ø                             |                                       | leg4 Ø  |
| slit1                          | 1  | 9  | 0  | 0  | 0  | 0  | 9  | 0  | 1  | 0  | 0  | 9  | 9   | =Ø                             | garment slit                          |         |
| slit2                          | 0  | 9  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0   | =Ø                             |                                       | slit1 Ø |
| slit3                          | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 1  | 0  | 0  | 0  | 0   | =2                             |                                       | slit2 Ø |
| plt1                           | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9   | =Ø                             | garment plt                           |         |
| plt2                           | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9   | =Ø                             |                                       | plt1 Ø  |
| plt3                           | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9   | =Ø                             |                                       | plt2 Ø  |
| ftb1                           | 9  | 0  | 0  | 0  | 3  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | =Ø                             | garment fit bottom                    |         |
| ftb2                           | 2  | 0  | 0  | 0  | 2  | 0  | 0  | 0  | 0  | 0  | 0  | 0  | 0   | = (3*2+ 5*2)/2=8               |                                       | ftb1 Ø  |
| ftb3                           | 1  | 0  | 1  | 0  | 1  | 0  | 0  | 0  | 0  | 0  | 0  | 9  | 9   | =Ø                             |                                       | ftb2 8  |
| ftb4                           | 2  | 0  | 1  | 0  | 1  | 0  | 9  | 0  | 0  | 0  | 0  | 9  | 9   | =Ø                             |                                       | ftb3 Ø  |
| brs1                           | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9   | =Ø                             | garment breast                        |         |
| brs2                           | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9  | 9   | =Ø                             |                                       | ftb4 Ø  |
|                                |    |    |    |    |    |    |    |    |    |    |    |    |     | =Ø                             | brs1 Ø                                |         |
|                                |    |    |    |    |    |    |    |    |    |    |    |    |     | =Ø                             | brs2 Ø                                |         |

FIGURE 11D



**FIGURE 12**



| output<br>characteristic<br>category | categorized<br>output<br>characteristic<br>search order | output<br>characteristic<br>value                                  | output<br>characteristic<br>passing<br>standard |
|--------------------------------------|---|--|---|
| garment<br>gender                    | 1   | gnd1 1.0<br>gnd2 Ø   | 1   |
| garment<br>season                    | 4   | sea1 1.3<br>sea2 2.8<br>sea3 3.6<br>sea4 2.5                       | 3   |
| garment type                         | 2   | typ1 1.3<br>typ2 1.6<br>typ3 1.6<br>typ4 Ø<br>typ5 2.9<br>typ6 2.0 | 2   |
| garment<br>occasion                  | 3   | occ1 1.2<br>occ2 3.4<br>occ3 4.8<br>occ4 Ø<br>occ5 6.9<br>occ6 9.5 | 4   |
| garment fit                          | 5   | ftt1 Ø<br>ftt2 8.66<br>ftt3 Ø<br>ftt4 Ø                            | 10  |

**FIGURE 13A**

| output<br>characteristic<br>category | categorized<br>output<br>characteristic<br>search order | output<br>characteristic<br>value  | output<br>characteristic<br>passing<br>standard |
|--------------------------------------|---|--|---|
| garment neck                         | 17  | nck1 5.5<br>nck2 5.5<br>nck3 6.5<br>nck4 3.5<br>nck5 Ø                                       | 8   |
| garment collar                       | 18  | clr1 0<br>clr2 0<br>clr3 0<br>clr4 0   | 5   |
| garment<br>sleeve                    | 13  | slv1 Ø<br>slv2 Ø<br>slv3 Ø<br>slv4 2.67<br>slv5 2.67<br>slv6 3                               | 5   |
| garment<br>length                    | 6   | lnt1 Ø<br>lnt2 Ø<br>lnt3 Ø<br>lnt4 Ø<br>lnt5 Ø<br>lnt6 Ø<br>lnt7 2.5<br>lnt8 2.5<br>lnt9 3.5 | 3   |

**FIGURE 13B**

| output<br>characteristic<br>category | categorized<br>output<br>characteristic<br>search order | output<br>characteristic<br>value | output<br>characteristic<br>passing<br>standard |
|--------------------------------------|---|-----------------------------------|---|
| garment back                         | 14  | bck1 Ø                            | 5   |
|                                      |   | bck2 4                            |   |
| garment color                        | 7   | col1 2                            | 5   |
|                                      |   | col2 2.66                         |   |
|                                      |   | col3 5.33                         |   |
|                                      |   | col4 2.66                         |   |
|                                      |   | col5 2.33                         |   |
|                                      |   | col6 2                            |   |
|                                      |   | col7 5.33                         |   |
|                                      |   | col8 5.66                         |   |
|                                      |   | col9 3                            |   |
|                                      |   | cola 2.33                         |   |
|                                      |   | colb 2.66                         |   |
|                                      |   | colc 4.33                         |   |
|                                      |   | cold 5.33                         |   |
| garment color<br>tone                | 8   | cole 4.66                         | 5   |
|                                      |   | colf 5.66                         |   |
|                                      |   | tne1 6.33                         |   |
|                                      |   | tne2 7                            |   |
|                                      |   | tne3 5                            |   |
|                                      |   | tne4 2                            |   |

FIGURE 13C

| output<br>characteristic<br>category | categorized<br>output<br>characteristic<br>search order | output<br>characteristic<br>value | output<br>characteristic<br>passing<br>standard |
|--------------------------------------|---|-----------------------------------|---|
| garment<br>material                  | 15  | mat0 2                            | 5   |
|                                      |   | mat1 Ø                            |   |
|                                      |   | mat2 Ø                            |   |
|                                      |   | mat3 2                            |   |
|                                      |   | mat4 2                            |   |
|                                      |   | mat5 2.5                          |   |
|                                      |   | mat6 2                            |   |
|                                      |   | mat7 2                            |   |
|                                      |   | mat8 2.5                          |   |
|                                      |   | mat9 0                            |   |
|                                      |   | mata 0                            |   |
|                                      |   | matb 0                            |   |
|                                      |   | matc Ø                            |   |
|                                      |   | mad 3                             |   |
|                                      |   | mate 2.5                          |   |
| garment<br>pattern                   | 16  | matf 0                            | 3   |
|                                      |   | pat1 2.5                          |   |
|                                      |   | pat2 2                            |   |
|                                      |   | pat3 2                            |   |
|                                      |   | pat4 2                            |   |
|                                      |   | pat5 0                            |   |
|                                      |   | pat6 0                            |   |
|                                      |   | pat7 0                            |   |
|                                      |   | pat8 0                            |   |
|                                      |   | pat9 3                            |   |

FIGURE 13D

| output<br>characteristic<br>category | categorized<br>output<br>characteristic<br>search order | output<br>characteristic<br>value | output<br>characteristic<br>passing<br>standard |
|--------------------------------------|---|-----------------------------------|---|
| garment leg                          | 9   | leg1                              | 3   |
|                                      |   | leg2                              |   |
|                                      |   | leg3                              |   |
|                                      |   | leg4                              |   |
|                                      |   | leg5                              |   |
| garment slit                         | 11  | slt1                              | 3   |
|                                      |   | slt2                              |   |
|                                      |   | slt3                              |   |
| garment plt                          | 12  | plt1                              | X   |
|                                      |   | plt2                              |   |
|                                      |   | plt3                              |   |
| garment fit<br>bottom                | 10  | ftb1                              | 10  |
|                                      |   | ftb2                              |   |
|                                      |   | ftb3                              |   |
|                                      |   | ftb4                              |   |
|                                      |   | ftb5                              |   |
| garment<br>breast                    | 19  | brs1                              | X   |
|                                      |   | brs2                              |   |

FIGURE 13E

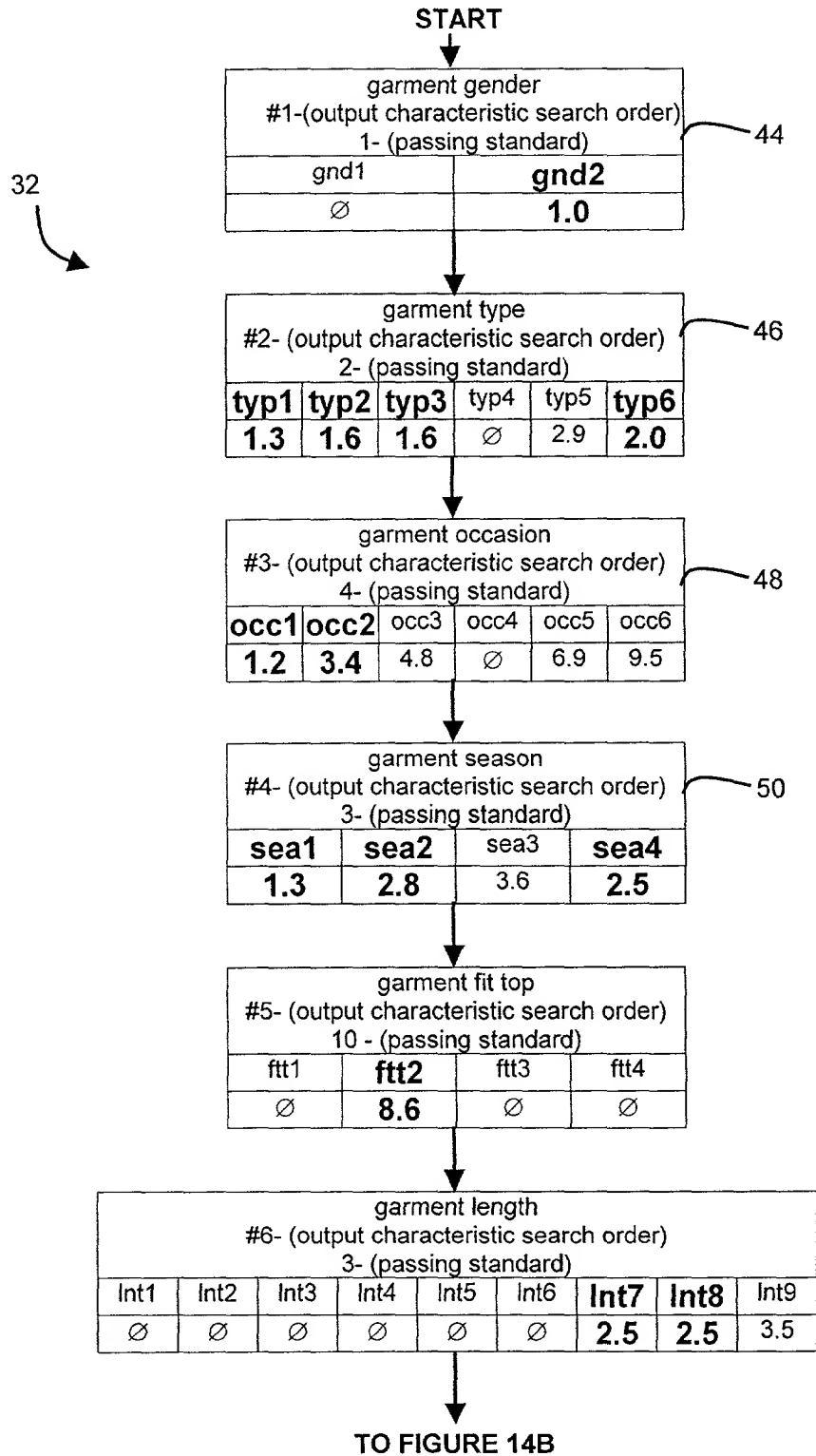


FIGURE 14A

FROM FIGURE 14A

| garment color                            |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
|--|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|
| #7- (output characteristic search order) |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| 5 - (passing standard)                   |      |      |      |      |      |      |      |      |       |       |       |       |       |       |
| col1                                     | col2 | col3 | col4 | col5 | col6 | col7 | col8 | col9 | col10 | col11 | col12 | col13 | col14 | col15 |
| 2  | 2.66 | 5.33 | 2.66 | 2.33 | 2    | 5.33 | 5.66 | 3    | 2.33  | 2.66  | 4.33  | 5.33  | 4.66  | 5.66  |

| garment color tone                       |      |      |      |
|--|------|------|------|
| #8- (output characteristic search order) |      |      |      |
| 5 - (passing standard)                   |      |      |      |
| tne1                                     | tne2 | tne3 | tne4 |
| 6.33                                     | 7.0  | 5.0  | 2.0  |

| garment leg                              |      |      |      |      |
|--|------|------|------|------|
| #9- (output characteristic search order) |      |      |      |      |
| 3- (passing standard)                    |      |      |      |      |
| Leg1                                     | leg2 | leg3 | leg4 | leg5 |
| 3  |      |      |      |      |

| garment fit bottom                        |      |      |      |
|---|------|------|------|
| #10- (output characteristic search order) |      |      |      |
| 10 - (passing standard)                   |      |      |      |
| ftb1                                      | ftb2 | ftb3 | ftb4 |
| Ø   | 8.6  | Ø    | Ø    |

| garment slit                              |       |       |
|---|-------|-------|
| #11- (output characteristic search order) |       |       |
| 3 - (passing standard)                    |       |       |
| gplt1                                     | gplt2 | gplt3 |
| Ø   | Ø     | 2     |

| garment pleat                             |       |       |
|---|-------|-------|
| #12- (output characteristic search order) |       |       |
| X 'don't care' - (passing standard)       |       |       |
| gplt1                                     | Gplt2 | gplt3 |
| Ø   | Ø     | Ø     |

TO FIGURE 14C

FIGURE 14B

FROM FIGURE 14B

| garment sleeve                            |      |      |             |             |      |
|---|------|------|-------------|-------------|------|
| #13- (output characteristic search order) |      |      |             |             |      |
| 5- (passing standard)                     |      |      |             |             |      |
| slv1                                      | Slv2 | slv3 | <b>slv4</b> | <b>slv5</b> | slv6 |
|   | Ø    | Ø    | <b>2.67</b> | <b>2.67</b> | 3    |

| garment back                              |             |
|---|-------------|
| #14- (output characteristic search order) |             |
| 5 - (passing standard)                    |             |
| Bck1                                      | <b>bck2</b> |
| Ø   | <b>4</b>    |

| garment material                          |      |      |      |      |      |      |      |      |                  |                  |                  |                  |                  |                  |                  |
|---|------|------|------|------|------|------|------|------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| #15- (output characteristic search order) |      |      |      |      |      |      |      |      |                  |                  |                  |                  |                  |                  |                  |
| 5 - (passing standard)                    |      |      |      |      |      |      |      |      |                  |                  |                  |                  |                  |                  |                  |
| mat1                                      | mat2 | mat3 | mat4 | mat5 | mat6 | mat7 | mat8 | mat9 | mat <sub>a</sub> | mat <sub>b</sub> | mat <sub>c</sub> | mat <sub>d</sub> | mat <sub>e</sub> | mat <sub>f</sub> | mat <sub>g</sub> |
| 2   | Ø    | Ø    | 2    | 2    | 2.5  | 2    | 2    | 2.5  | 0                | 0                | 0                | Ø                | 3                | 2.5              | 0                |

| garment pattern                           |      |      |      |      |      |      |      |      |
|---|------|------|------|------|------|------|------|------|
| #16- (output characteristic search order) |      |      |      |      |      |      |      |      |
| 3 - (passing standard)                    |      |      |      |      |      |      |      |      |
| pat1                                      | pat2 | pat3 | pat4 | pat5 | pat6 | pat7 | pat8 | pat9 |
| 2.5                                       | 2    | 2    | 2    | 0    | 0    | 0    | 0    | 3    |

| garment neck                              |      |      |      |      |
|---|------|------|------|------|
| #17- (output characteristic search order) |      |      |      |      |
| 8- (passing standard)                     |      |      |      |      |
| nck1                                      | nck2 | nck3 | nck4 | nck5 |
| 5   | 5    | 6    | 3    | Ø    |

TO FIGURE 14D

FIGURE 14C

FROM FIGURE 14C

↓

|   |      |      |      |
|---|------|------|------|
| garment collar                            |      |      |      |
| #18- (output characteristic search order) |      |      |      |
| 5- (passing standard)                     |      |      |      |
| clr1                                      | clr2 | clr3 | clr4 |
| 0   | 0    | 0    | 0    |

↓

|   |      |
|---|------|
| garment breast                            |      |
| #19- (output characteristic search order) |      |
| X- (passing standard)                     |      |
| ftb1                                      | ftb2 |
| Ø   | Ø    |

↓  
END

FIGURE 14D

| gtyp | unit | gocc | gcol | gfft | gftb | glnt | gleg | gnck | gslv | gpat | gtne | gmat | gsit | gpit | gbck | gclr | gbrs | gsty | manu | filename |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| 13   | 1    | 24   | 68   | 2    | X    | 2    | X    | 12   | 5    | 6    | 0    | 3B   | X    | X    | 1    | 3    | X    | 2    | 10   | 151      |
| 13   | 3    | 24   | 68   | X    | 1    | 5    | 1    | X    | X    | 6    | 0    | 3    | 0    | 0    | X    | X    | X    | 2    | 10   | 151      |
| 13   | 1    | 124  | 8    | 2    | X    | 1    | X    | 2    | 5    | 0    | 13   | 3    | X    | X    | 1    | 3    | X    | 2    | 10   | 152      |
| 13   | 3    | 124  | 8    | X    | 0    | 6    | 1    | X    | X    | 0    | 13   | 3    | 1    | 2    | X    | X    | X    | 2    | 10   | 152      |
| 13   | 1    | 1234 | 893  | 2    | X    | 2    | X    | 2    | 5    | 8    | 12   | 9F   | X    | X    | 1    | 3    | X    | 2    | 10   | 153      |
| 13   | 3    | 1234 | 190  | X    | 1    | 5    | 1    | X    | X    | 6    | 13   | 83   | 0    | 0    | X    | X    | X    | 2    | 10   | 153      |
| 13   | 1    | 124  | 149  | 1    | X    | 2    | X    | 1    | 3    | 8    | 12   | 68   | X    | X    | 0    | 3    | X    | A    | 11   | 154      |
| 13   | 3    | 124  | 1    | X    | 1    | 5    | 1    | X    | X    | 0    | 0    | 3    | 1    | 0    | X    | X    | X    | A    | 11   | 154      |
| 13   | 1    | 12   | 9    | 2    | X    | 1    | X    | 1    | 4    | 0    | 23   | 3    | X    | X    | 0    | 2    | X    | 69   | 12   | 155      |
| 13   | 3    | 12   | 9    | X    | 2    | 4    | 2    | X    | X    | 0    | 1    | E    | 0    | 0    | X    | X    | X    | 69   | 12   | 155      |
| 13   | 1    | 12   | 1    | 2    | X    | 1    | X    | 1    | 5    | 0    | 23   | 3    | X    | X    | 0    | 2    | X    | 69   | 12   | 156      |
| 13   | 3    | 12   | 1    | X    | 2    | 4    | 2    | X    | X    | 0    | 1    | E    | 0    | 0    | X    | X    | X    | 69   | 12   | 156      |
| 13   | 1    | 1    | 6    | 2    | X    | 1    | X    | 1    | 5    | 0    | 23   | 3    | X    | X    | 0    | 2    | X    | 69   | 12   | 157      |
| 13   | 3    | 1    | 6    | X    | 2    | 4    | 2    | X    | X    | 0    | 1    | 5    | 0    | 0    | X    | X    | X    | 69   | 12   | 157      |
| 13   | 1    | 234  | BE   | 2    | X    | 2    | X    | 0    | 5    | 8    | 12   | 3D   | X    | X    | 1    | 3    | X    | 69A  | 15   | 158      |
| 13   | 3    | 234  | B    | X    | 1    | 4    | 1    | X    | X    | 0    | 0    | 3    | 0    | 0    | X    | X    | X    | 69A  | 15   | 158      |
| 13   | 1    | 234  | 0    | 2    | X    | 2    | X    | 1    | 0    | 0    | 123  | 39   | X    | X    | 1    | 3    | X    | 56   | 15   | 159      |
| 13   | 3    | 234  | 0D   | X    | 2    | 4    | 1    | X    | X    | 6    | 0    | 39   | 0    | 0    | X    | X    | X    | 56   | 15   | 159      |
| 13   | 1    | 24   | 0D   | 2    | X    | 1    | X    | 0    | 5    | 8    | 0    | 3    | X    | X    | 1    | 3    | X    | 69   | 15   | 160      |
| 13   | 3    | 24   | 0D   | X    | 1    | 4    | 1    | X    | X    | 8    | 0    | 3    | 0    | 0    | X    | X    | X    | 69   | 15   | 160      |
| 13   | 1    | 2345 | 4    | 2    | X    | 1    | X    | 0    | 5    | 0    | 1    | 3    | X    | X    | 1    | 3    | X    | 689  | 15   | 161      |
| 13   | 3    | 2345 | 4    | X    | 2    | 4    | 1    | X    | X    | 23   | 13   | 3    | 0    | 0    | X    | X    | X    | 689  | 15   | 161      |
| 13   | 1    | 2345 | 1    | 2    | X    | 2    | X    | 0    | 5    | 0    | 1    | 3    | X    | X    | 1    | 3    | X    | 789  | 16   | 162      |
| 13   | 3    | 2345 | 0    | X    | 2    | 4    | 2    | X    | X    | 0    | 123  | 36   | 1    | 0    | X    | X    | X    | 789  | 16   | 162      |
| 13   | 1    | 25   | 2    | 23   | X    | 1    | X    | 0    | 5    | 0    | 23   | 4    | X    | X    | 1    | 3    | X    | 69   | 16   | 163      |
| 13   | 3    | 25   | 2    | X    | 2    | 4    | 2    | X    | X    | 0    | 23   | 4    | 0    | 0    | X    | X    | X    | 69   | 16   | 163      |

FIGURE 15A



| gtyp | unit | gocc | gcol | gftt | gftb | gInt | gleg | gnck | gsiv | gpat | gtne | gmat | gsit | gplt | gbck | gclr | gbrs | gsty | manu | filename |
|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|
| 13   | 1    | 124  | 0A   | 2    | X    | 1    | X    | 3    | 12   | 8    | 13   | 5B   | X    | X    | 0    | 3    | X    | 1A   | 17   | 164      |
| 13   | 3    | 124  | 26   | X    | 12   | 5    | 2    | X    | X    | 0    | 23   | 4    | 0    | 0    | X    | X    | X    | 1A   | 17   | 164      |
| 13   | 1    | 34   | 8C   | 23   | X    | 1    | X    | 3    | 1    | 0    | 0    | 5    | X    | X    | 0    | 3    | X    | 58   | 18   | 165      |
| 13   | 3    | 34   | C    | X    | 12   | 4    | 1    | X    | X    | 0    | 23   | F    | 0    | 0    | X    | X    | X    | 58   | 18   | 165      |
| 13   | 1    | 1234 | 0    | 12   | X    | 1    | X    | 1    | 1    | 0    | 123  | 3    | X    | X    | 1    | 3    | X    | 69   | 1    | 166      |
| 13   | 3    | 1234 | 0    | X    | 3    | 56   | 2    | X    | X    | 0    | 123  | 3    | 0    | 0    | X    | X    | X    | 69   | 1    | 166      |
| 13   | 1    | 124  | 1    | 1    | X    | 1    | X    | 0    | 2    | 7    | 13   | 36   | X    | X    | 1    | 3    | X    | 8A   | 21   | 167      |
| 13   | 3    | 124  | 1    | X    | 3    | 5    | 2    | X    | X    | 0    | 1    | D    | 0    | 0    | X    | X    | X    | 8A   | 21   | 167      |
| 13   | 1    | 1    | 6    | 1    | X    | 1    | X    | 4    | 1    | 8    | 2    | B    | X    | X    | 1    | 3    | X    | 9    | 21   | 168      |
| 13   | 3    | 1    | 6    | X    | 1    | 7    | 1    | X    | X    | 0    | 23   | 3A   | 0    | 0    | X    | X    | X    | 9    | 21   | 168      |
| 13   | 1    | 1    | EB6  | 1    | X    | 1    | X    | 4    | 1    | 18   | 2    | 5    | X    | X    | 1    | 3    | X    | 9    | 21   | 169      |
| 13   | 3    | 1    | 6    | X    | 1    | 7    | 1    | X    | X    | 1    | 1    | 5    | 0    | 0    | X    | X    | X    | 9    | 21   | 169      |
| 13   | 1    | 1    | 0A   | 2    | X    | 1    | X    | 4    | 1    | 38   | 13   | 9    | X    | X    | 1    | 3    | X    | 6A   | 21   | 170      |
| 13   | 3    | 1    | 0A   | X    | 12   | 7    | 1    | X    | X    | 38   | 13   | 9    | 0    | 0    | X    | X    | X    | 6A   | 21   | 170      |
| 13   | 1    | 4    | 8C   | 3    | X    | 0    | X    | 4    | 0    | 0    | 1    | 5    | X    | X    | 1    | 3    | X    | 78A  | 23   | 171      |
| 13   | 3    | 4    | 6    | X    | 2    | 3    | 2    | X    | X    | 0    | 3    | F    | 0    | 0    | X    | X    | X    | 78A  | 23   | 171      |
| 13   | 1    | 24   | 4    | 2    | X    | 1    | X    | 0    | 4    | 8    | 0    | 5A   | X    | X    | 1    | 3    | X    | 68A  | 25   | 172      |
| 13   | 3    | 24   | 4    | X    | 1    | 4    | 1    | X    | X    | 0    | 0    | 3    | 0    | 0    | X    | X    | X    | 68A  | 25   | 172      |
| 13   | 1    | 14   | 0    | 2    | X    | 0    | X    | 3    | 1    | 0    | 3    | F    | X    | X    | 1    | 3    | X    | 18A  | 27   | 173      |
| 13   | 3    | 14   | C    | X    | 1    | 4    | 1    | X    | X    | 6    | 1    | 5    | 0    | 0    | X    | X    | X    | 18A  | 27   | 173      |
| 13   | 1    | 23   | 0    | 2    | X    | 1    | X    | 1    | 5    | 0    | 3    | 2    | X    | X    | 1    | 3    | X    | 79   | 29   | 174      |
| 13   | 3    | 23   | 0    | X    | 1    | 4    | 1    | X    | X    | 0    | 3    | 2    | 0    | 0    | X    | X    | X    | 79   | 29   | 174      |
| 13   | 1    | 25   | 27   | 2    | X    | 1    | X    | 3    | 3    | 8    | 2    | C    | X    | X    | 1    | 3    | X    | 68   | 2    | 175      |

FIGURE 15B